

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch
690 Walnut Ave. St. 150
Vallejo, CA 94592-1133
(707) 649-5453
(707) 649-5493

Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.28**WELDING INSPECTION REPORT****Resident Engineer:** Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-014259**Date Inspected:** 16-Apr-2010**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China**CWI Name:** Chen Xi**CWI Present:** Yes No**Inspected CWI report:** Yes No N/A**Rod Oven in Use:** Yes No N/A**Electrode to specification:** Yes No N/A**Weld Procedures Followed:** Yes No N/A**Qualified Welders:** Yes No N/A**Verified Joint Fit-up:** Yes No N/A**Approved Drawings:** Yes No N/A**Approved WPS:** Yes No N/A**Delayed / Cancelled:** Yes No N/A**Bridge No:** 34-0006**Component:** Orthotropic Box Girder (OBG)**Summary of Items Observed:**

On this date Caltrans Office of Structural Material (OSM) Quality Assurance (QA) Inspector, D.Sukanthan was present during the time noted above for observations relative to the work being performed.

This QA Inspector randomly observed the following work in progress:

OBG # CROSSBEAM CB 07

This QA observed that no significant work was being performed on this crossbeam during the time QA was present.

OBG # CROSS BEAM CB08

This QA observed that no significant work was being performed on this crossbeam during the time QA was present.

OBG # CROSS BEAM CB09

This QA observed ZPMC qualified welding personnel identified as 058087 perform shielded Metal Arc Weld (SMAW) process base metal repair on Side Panel identified as SP205A. ZPMC Quality Control Personnel (QC) identified as Mr. Liu chuan gang was present to monitor the welding process. The welding parameters as measured using QC's calibrated instruments appeared to be in general compliance with WPS-345-SMAW-3G

WELDING INSPECTION REPORT

(Continued Page 2 of 3)

(3F)-FCM-Repair and approved Critical Weld Repair B-CWR1401.

OBG # CROSSBEAM CB 10

This QA observed ZPMC qualified welding personnel identified as 058087 perform shielded Metal Arc Weld (SMAW) process base metal repair on Side Panel identified as SP205A. ZPMC Quality Control Personnel (QC) identified as Mr. Wang Liang was present to monitor the welding process. The welding parameters as measured using QC's calibrated instruments appeared to be in general compliance with WPS-345-SMAW-3G (3F)-FCM-Repair and approved Critical Weld Repair B-CWR1353 (Rev. No:1). See attached pictures.

OBG # CROSS BEAM CB 11

This QA observed that no significant work was being performed on this crossbeam during the time QA was present.

OBG # CROSS BEAM CB12

This QA observed that no significant work was being performed on this crossbeam during the time QA was present.

OBG # CROSS BEAM CB13

This QA observed that no significant work was being performed on this crossbeam during the time QA was present.

OBG # CROSS BEAM CB14

This QA observed that no significant work was being performed on this crossbeam during the time QA was present.

OBG # CROSS BEAM CB15

This QA observed that no significant work was being performed on this crossbeam during the time QA was present.

OBG # CROSS BEAM CB16

This QA observed that no significant work was being performed on this crossbeam during the time QA was present.

OBG # CROSS BEAM CB17

This QA inspector received ZPMC Non Destructive Testing (NDT) notification 005535 to perform Ultrasonic Testing (UT) of approximately 10% of the area previously tested and accepted by ZPMC Quality Control

WELDING INSPECTION REPORT

(Continued Page 3 of 3)

Personnel. This QA Inspector generated a Ultrasonic Test report for this date. The member is identified as Floor beam Corner Diaphragm. The weld tested is identified as follows:

(FB3057-053-006,012,018,024,037,043)

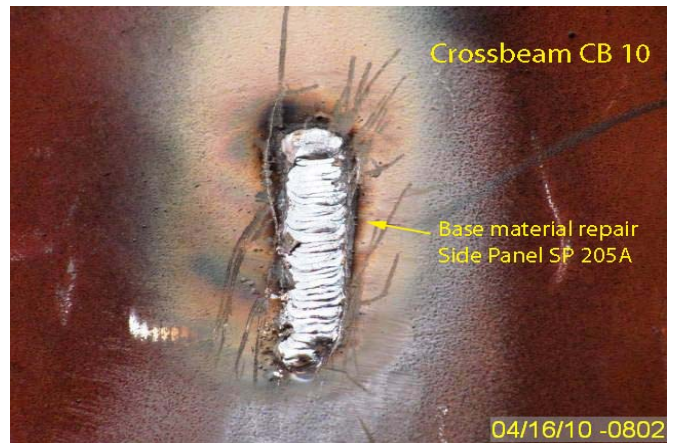
(FB3057-054-006,009,040,046)

(FB3057-055-005,009)

(FB3057-056-005,009,028,034)

(FB3058-056-016,022)

Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.



Summary of Conversations:

As mention above

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang 150-00422372, who represents the Office of Structural Materials for your project.

Inspected By:	Sukanthan,Dhanasingh
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Quality Assurance Inspector

Reviewed By:	Hall,Steven
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QA Reviewer
